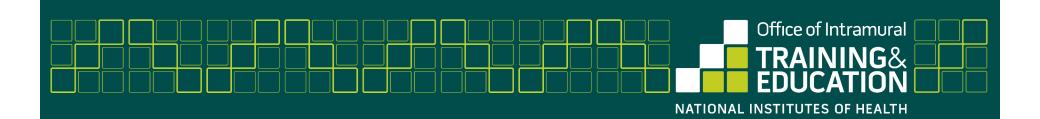
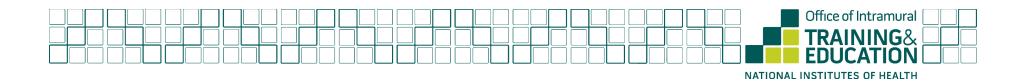
Getting The Most Out Of Your Graduate Career

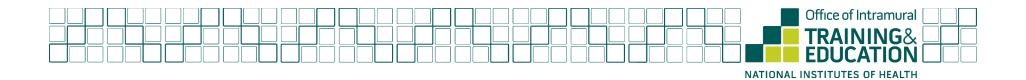
William J. Higgins





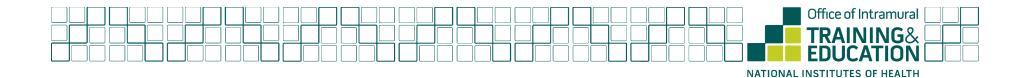
Why are you here instead of the laboratory?

What is it you want to take away from this?



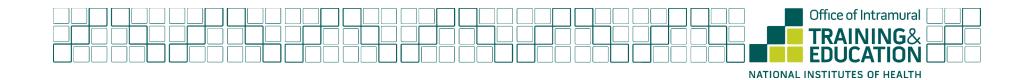
What is your reason for going to graduate school?

What do you see as the desirable ultimate outcome?

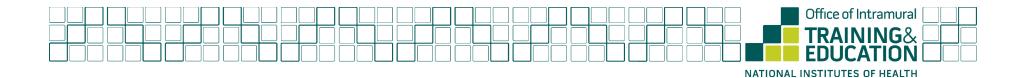


Key Concept:

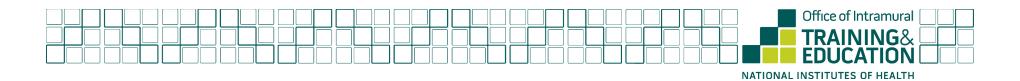
Becoming an independent investigator



Let's think about your move to the next stop on life's journey.....



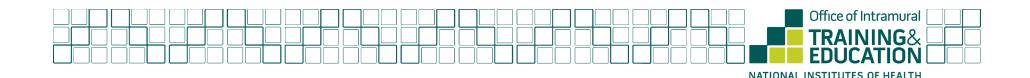
Whatever you think will be next, it will require an application.



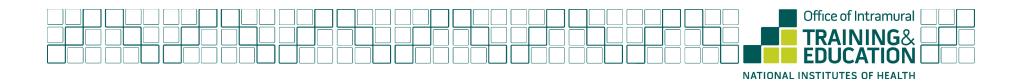
What supports your application?

- Academic Excellence
- References
- Communication Skills
- Appropriate for position?
- Training
 - Technical
 - Professional
- Application materials

- Publications & Presentations
 - Impact factor
- Evidence of Grantsmanship
- Relevant Experiences
 - Research
 - Teaching
 - Business
- Reputation & Professional "Bloodlines"



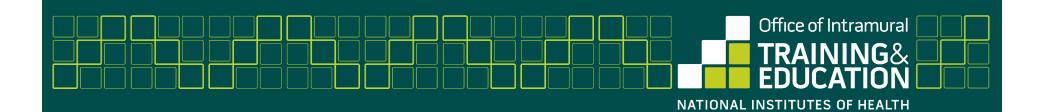
Don't let the situation confuse you...

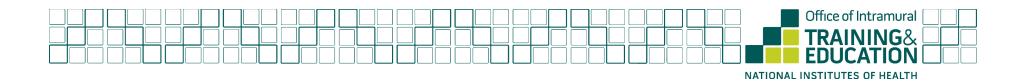


A few skills to develop

- Writing
- Speaking
- Presenting
- Time management
- Marketing
- Networking
- Dealing with your mentor and committee

Important message: how well you say it is as important as what you say!

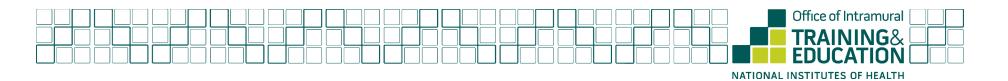




"Bad writing makes you look stupid.

Good writing covers a multitude of shortcomings."

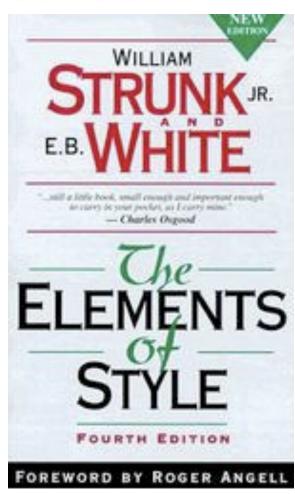
R. Compton, 2004

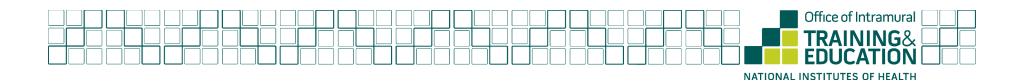


Step 1: the Resource

Strunk & White

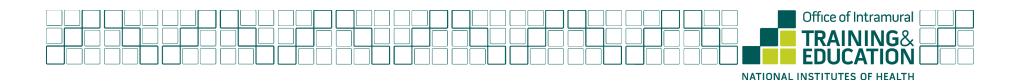
The Elements of Style





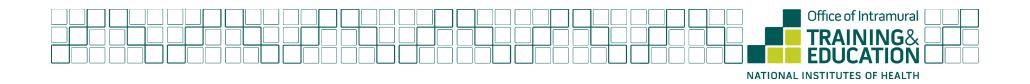
Learn to write

- Use simple, declarative sentences
- Use active voice, definite verbs
- Write in the positive; rarely use the negative
- Omit needless words
- Eliminate one-half of your adjectives
- Punctuate correctly
- Transition between paragraphs



Learn to edit your writing

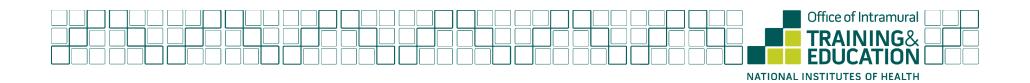
- Underline the subject and verb in each sentence
 - Is the verb definite and appropriate
- Outline the document when you have finished
 - Is it linear?
 - Is there a logical flow to the ideas?
- Read your final version aloud
 - Trust your ear
 - If you would not say it, do not write it!



Step 2: The Writing Process

Once you have it down on paper, it is almost too late!

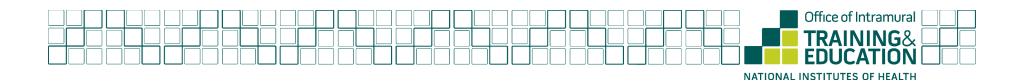
You may already be toast!



Chew gum and walk at the same time?

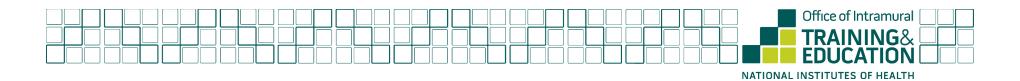
Type and think at the same time?

Do not sit at the keyboard and begin to think and type.



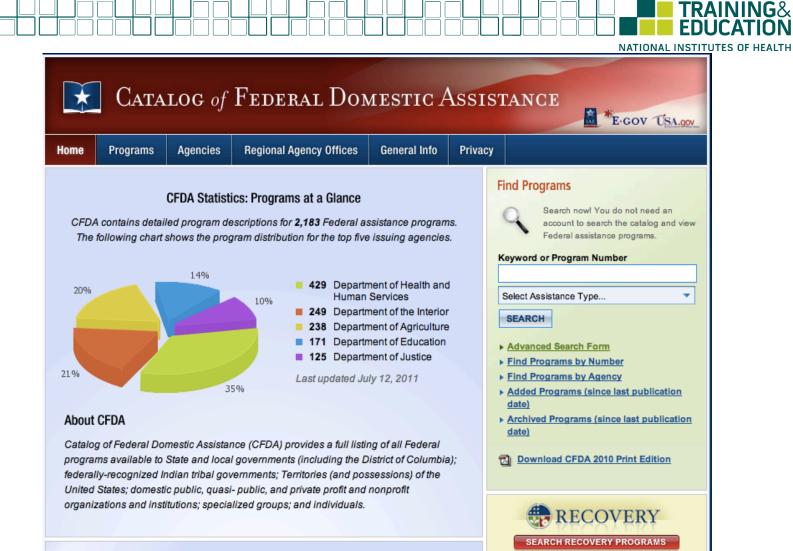
Finding your time

- In advance of the deadline
 - You must avoid writing under stress.
- Each day as part of your routine
- Making notes
 - Not an outline!
- Use the Wall Method!
 - Do not use a written outline constructed in order in one sitting!



You should have experience writing

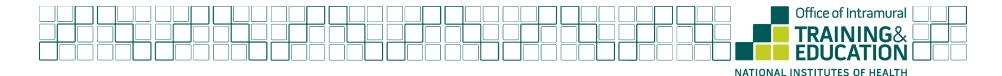
- Abstracts
- Posters
- Presentations
- Dissertation
- Papers in refereed journals
- Proposals

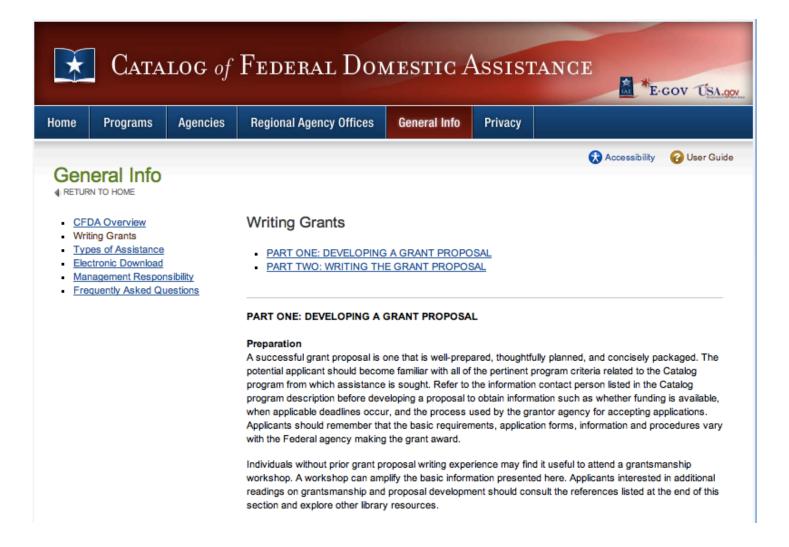


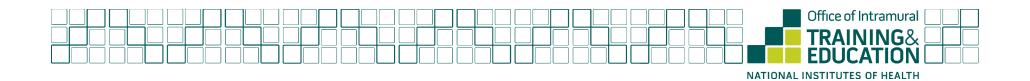
Office of Intramural

https://www.cfda.gov

Agency Log-In

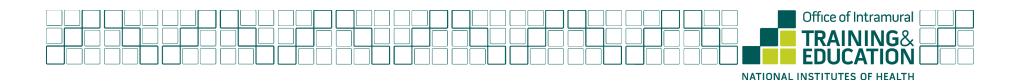






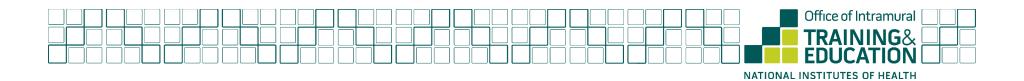
The Absolute Best Way of learning to write grants:

serve on a review panel!



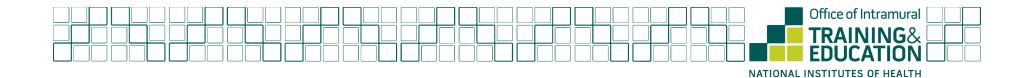
Public speaking

- Requires practice
 - No, I mean deliver it out loud practice!
- Requires criticism; find a mentor and critic
- Video your performance
- Build your confidence
- Open doors with positive first impression
- Pay attention in seminars and lectures to technique and style

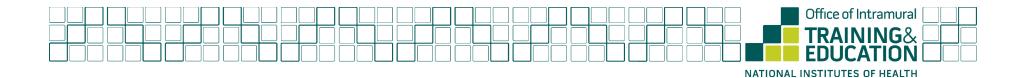


Speaking skills requires practice

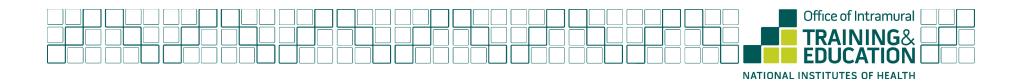
- Lab meetings
- Scientific meetings
 - Local, regional, national
- Guest lectures and seminars
- Community and schools



For the love of your fellow humans, please do learn how to make a Power Point slide!

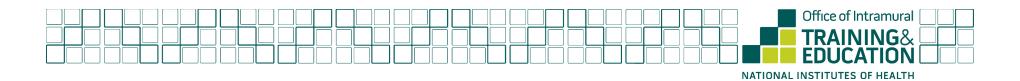


The focus of a presentation should be YOU not the slides!



Power Points

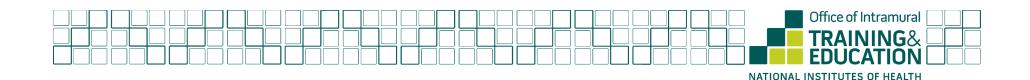
- One large graph per slide
 - At an institute retreat, I saw 4 on a slide! They were so small the presenter had to walk to the screen
- Reasonable, readable color schemes
 - Yellow on black is NOT acceptable
 - In all but the biggest rooms, use dark lettering on light (white) background
 - Slide background should be minimal
 - Most animation effects are distracting



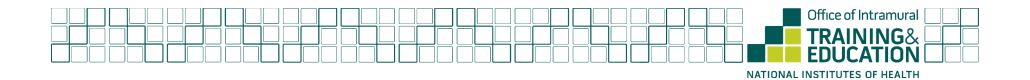
Power Point is dangerous in the hands of amateurs

- Talk to the screen
- Audience forgets the speaker
- Encourages a lack of practice
- Discourages conversation
 - Presentation sounds memorized

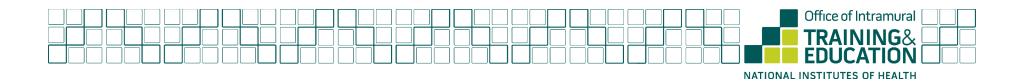
Practice without your slides or notes!



Whatever you do, tell a <u>story!</u>

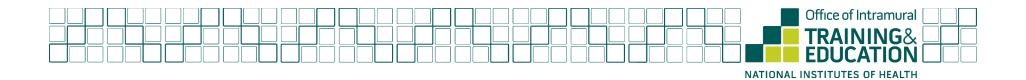


Develop and perfect the 60 second 'elevator speech'



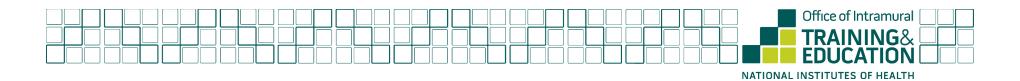
Principles of Time Management

- One day at a time
- Lists of essential next day items only
- Use a day planner
- Time on task
- Not all times are good for certain tasks
- Location and the right time are critical
- You are not a 'night person'
- Learn to sleep fast!



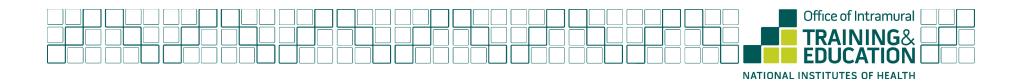
Know your slice of the science

Keeping up with the literature requires a system



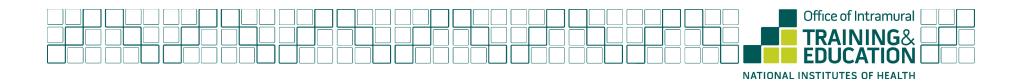
Teaching Experience: The Portfolio

- Formal training
 - Campus teaching excellence program
- Student evaluations
- Peer and mentor evaluations
- Sample lectures and syllabus
- Video on the web
- Statement of Teaching Philosophy



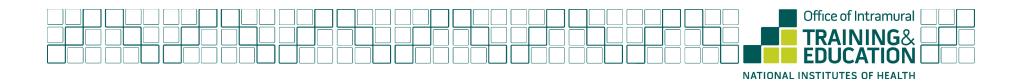
Your Web Site

- Professional
- Informative
- Attractive
- Explains research interests and initiatives
- Pay attention to usage of key research terms that lead investigators to you



Develop Your Network

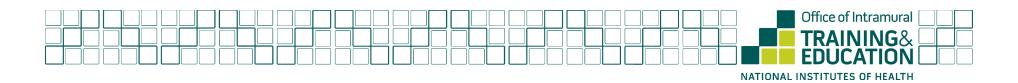
- Your mentor
- Your in house colleagues
- Visiting seminar speakers
- Interest groups at meetings
- Social groups at meetings
- Colleagues via the literature



Selecting a mentor

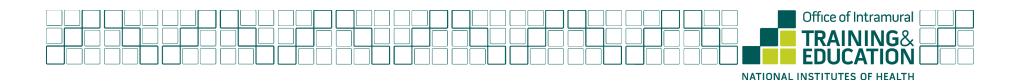
- Publications
 - Number
 - Impact
 - Recent
- Funding
 - Yours and theirs!
- Exciting

- Current lab personnel
- History of grad students
- Stage in career
- Opinions of current lab personnel



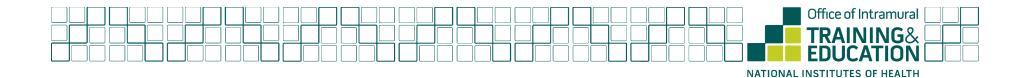
Questions For Your Mentor

- My financial support plan?
- How and when do you communicate?
- What are the daily expectations placed on you?
- What are your responsibilities?
- What are her/his responsibilities?
- How do you select your dissertation project?
- How much direction and editing will you get on your written work and your oral presentations?
- How long should my graduate career last?
- What meetings do I get to attend?

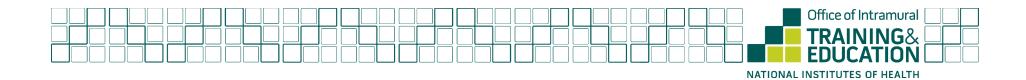


Your Dissertation Committee

- Are (or should be) on your side!
- Selected for their scientific expertise
- Should be familiar with graduate education
- Potential resources for technical advice
- Should be kept informed about your progress and problems
- If utilized properly will make your Ph.D. defense at routine affair

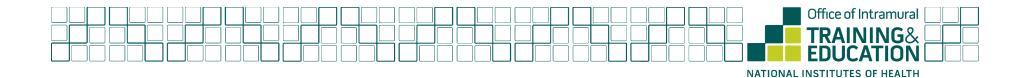


Requesting Reference Letters

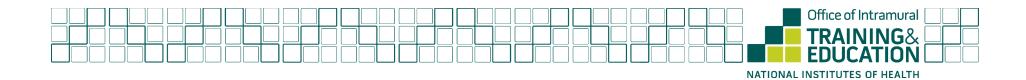


When do you bail out?

If any of the following images look familiar, it might be time to move on!



What else shall we discuss?



Thank you

Do well and be happy!